

Efficacy Trials - Injection Method

Canada thistle

Cirsium arvense

Submitted: Clark County Weed Management
Philip Burgess, Director
Focus: Efficacy Results of Injection Method used on Canada thistle
Process: Injection Method
Dates(s): 06/01/05
Location(s): Approx 8000 NE 72nd Avenue

Method of Control:

Stems were cut 6" to 8" above ground. The existing cavity was widened and lengthened using a special needle.
0.4 ml of RoundUp Pro Concentrate, at full strength, was injected into the cavity.

Treatment Notes:

Eight stems were treated within a 1 square foot area, within the 75 square foot plot.
This was done to observe the effect (if any) of herbicide traveling through the rhizome of what appeared to be a clonal patch.

Control Results:

All eight treated stems were browned in three weeks. A few weeks later, all Canada thistle plants around the injected area were withered.

Non-target Effect:

Queen Anne's lace, milkweed, and horsetail were all growing within the 75 square feet.
None were affected.

Conclusion/Recommendations

Transfer of herbicide did occur from the injected stems to the surrounding clonal thistle plants through the rhizome. This fact rules out the possibility that just the above ground tissue was affected, as is sometimes the case with foliar applications. It appears that lasting control may be achieved.

Efficacy Trial Results On Canada thistle	
Site name	CT Trial 1
Address	Approx 8000 NE 72nd Ave
Plot #	Plot #1
Reference #	
Treatment Date	June 1, 2005
Treatment Method:	
Method	Cut-stem + Injection; 6" to 8" above ground
Herbicide	Roundup Pro Concentrate
Injection Dosage	0.4 mL @ 100%
Area:	
Area Treated	75 sq ft
Total number of plants in area (rhizomic connection?)	124
Number of plants/stems actually treated	8 (all in 1 sq ft area)
Plant Phenology:	
Plant phenology	In flower
Typical plant height	3 to 4 ft
Typical plant stem diameter	O.D. 1/2" to 5/8" 1/16" interior opening
Follow-up & Observations:	
Date	June 22, 2005
Observations	All Canada thistle plants in treated area brownish-black
Date	July 7, 2005
Observations	Canada thistle plants around injection area turning brown; Those plants farther out beginning to yellow
Control percentage:	
Of plants/stems treated--Number controlled	8
Control percentage	100%
Number Plants Controlled:	
Total # of plants controlled (rhizomic connection?)	124
Notes:	
0.4 mL @ 100% -- All Canada thistle plants in area browned. No transfer to other species in plot; (Queen Anne's lace, milkweed, horsetail)	